

Message

From: Santos, Carmen [Santos.Carmen@epa.gov]
Sent: 4/7/2017 7:32:58 PM
To: ZIFF, SARA [ZIFF.SARA@EPA.GOV]
Subject: RE: PCB Sample Preparation

non responsive per agreement with requestor (also described as "non-responsive")

Carmen D. Santos

PCB Coordinator
USEPA Region 9 (LND-4-1)
Land Division
75 Hawthorne Street
San Francisco, CA 94105
Voice: 415.972.3360
santos.carmen@epa.gov

"Think left and think right and think low and think high. Oh, the thinks you can think up if only you try!" Dr. Seuss

Before printing this message and/or attachments, think if it is necessary. Think Green.

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From: ZIFF, SARA
Sent: Friday, April 07, 2017 12:29 PM
To: Santos, Carmen <Santos.Carmen@epa.gov>
Subject: RE: PCB Sample Preparation

non responsive

Thanks,
Sara

^^^^^^^^^^^^^^^^^^
Sara Ziff, P.E.
Project Manager
Corrective Action Section
U.S. EPA, Region 9
75 Hawthorne Street (LND-4-1)
San Francisco, CA 94105

(415) 972-3536
ziff.sara@epa.gov

From: Santos, Carmen
Sent: Friday, April 07, 2017 11:55 AM
To: ZIFF, SARA <ZIFF.SARA@EPA.GOV>
Subject: RE: PCB Sample Preparation

non responsive

Carmen D. Santos

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From: ZIFF, SARA
Sent: Thursday, April 06, 2017 4:16 PM
To: Santos, Carmen <Santos.Carmen@epa.gov>
Cc: Armann, Steve <Armann.Steve@epa.gov>; Wilson, Patrick <Wilson.Patrick@epa.gov>
Subject: FW: PCB Sample Preparation

non responsive

^^^^^^^^^^^^^^^^
Sara Ziff, P.E.
Project Manager
Corrective Action Section
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ziff.sara@epa.gov

From: Halozan, Wayne@DTSC [<mailto:Wayne.Halozan@dtsc.ca.gov>]
Sent: Thursday, April 06, 2017 11:37 AM
To: ZIFF, SARA <ZIFF.SARA@EPA.GOV>; Wilson, Patrick <Wilson.Patrick@epa.gov>;
amit.pathak@dtsc.cs.gov; Neal, Greg@DTSC <Greg.Neal@dtsc.ca.gov>
Cc: Quinn, John@DTSC <John.Quinn@dtsc.ca.gov>; Ramage, Robert@DTSC
<Robert.Ramage@dtsc.ca.gov>; Lytle, Eric@DTSC <Eric.Lytle@dtsc.ca.gov>; Wortham, Carol@DTSC
<Carol.Wortham@dtsc.ca.gov>; Sweel, Greg@DTSC <Greg.Sweel@dtsc.ca.gov>; Sarmiento,
Loveriza@DTSC <Loveriza.Sarmiento@dtsc.ca.gov>
Subject: PCB Sample Preparation

Greetings Sara,

I am the chemist who initiated the inquiry for changing the sample preparation method from EPA Method 3540C (soxhlet) to EPA Method 3541 (automated soxhlet) for the Riverside Ag site location. I checked the TSCA website for method preference for PCB extraction/analysis which directed users to SW-846. EPA Method 8082A is the analytical method for PCB analysis, the soil preparation is listed in section 2.1.2 of Method 8082A which lists both the regular Soxhlet and automated Soxhlet extraction for soil analysis. I can send you the literature for the extraction system if interested.

I noted that you indicated we would have to do extensive method comparison, what do you consider to be extensive comparison?

The automated soxhlet method is validated by EPA and has been an active method since 1994. Here is the direct quote from Method 3541;

1.1 Method 3541... There are two differences between this extraction method and Method 3540. In the initial extraction stage of Method 3541, the sample-loaded extraction thimble is immersed into the boiling solvent. This ensures very rapid intimate contact between the specimen and solvent and rapid extraction of the organic analytes. In the second stage the thimble is elevated above the solvent, and is rinse-extracted as in Method 3540. In the third stage, the solvent is evaporated, as would occur in the Kuderna-Danish(K-D) concentration step in Method 3540.

1.2 This method is applicable to soils, clays, solid wastes and sediments containing from 1 to 50 µg of PCBs (measured as Arochlors) per gram of sample. It has been statistically evaluated at 5 and 50 µg/g of Arochlors 1254 and 1260, and found to be equivalent to Method 3540 (Soxhlet Extraction).

If you need any additional information let me know.

Thank you

Wayne Halozan - Research Scientist II
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